

## CLAIMS

What is claimed is:

- 1        1. A method for material inventory control, allowing a manufacturer to maintain safe  
2 and efficient material stock; the method comprising the steps of:  
3            (a) receiving production management data;  
4            (b) calculating usage quantities of materials in customer's order data and estimated  
5 order data from the production management data according to material codes and a  
6 production schedule, wherein each of the materials is designated by a unique material code  
7 for identification purpose;  
8            (c) deducting the calculated usage quantities from stock amounts of the  
9 corresponding materials according to the material codes and the production schedule,  
10 wherein the material stock amounts are retrieved from material stock data of the production  
11 management data;  
12            (d) generating material inventory reports composed of the deducted results and  
13 storing the material inventory reports into an inventory database; and  
14            (e) linking the inventory database to a web-site server module, wherein the web-site  
15 server module is connected to a network system, allowing the manufacturer to browse and  
16 retrieve the material inventory reports stored in the inventory database by using a web  
17 browser through the network system, so as to realize current status of material inventory and  
18 implement timely procurement of materials insufficient in the production schedule.

1           2. The method of claim 1, wherein the production management data include  
2           customer's order data received by a sales department of the manufacture, estimated order  
3           data projected by the sales department, and material stock data provided by an inventory  
4           management department of the manufacturer.

1           3. The method of claim 1, wherein in the linking step (e), the network system is  
2           internet or intranet.

1           4. The method of claim 1, wherein in the linking step (e), the web-site server module  
2           is a web site server.

1           5. The method of claim 1, wherein in the linking step (e), the web browser is  
2           Microsoft Internet Explorer.

1           6. The method of claim 1, wherein in the linking step (e), the web browser is  
2           Netscape Navigator.

1           7. A method for material inventory control, allowing a manufacturer to maintain safe  
2           and efficient material stock; the method comprising the steps of:

3           (a) receiving customer's order data received by a sales department of the  
4           manufacture, estimated order data projected by the sales department, and material stock data  
5           provided by an inventory management department of the manufacturer;

(b) calculating usage quantities of materials in the customer's order data and the estimated order data according to material codes and a production schedule, wherein each of the materials is designated by a unique material code for identification purpose;

(c) deducting the calculated usage quantities from stock amounts in the material stock data of the corresponding materials according to the material codes and the production schedule;

(d) generating material inventory reports composed of the deducted results and storing the material inventory reports into an inventory database; and

(e) connecting the inventory database to a web site server, wherein the web site server is internet or intranet, allowing the manufacturer to browse and retrieve the material inventory reports stored in the inventory database by using a web browser through internet or intranet, so as to realize current status of material inventory and implement timely procurement of materials insufficient in the production schedule.

8. The method of claim 1, wherein in the step (c), the material stock data include current stock data of a material and a substituent material that is replaceably used in place of the former material.

9. The method of claim 7, wherein in the step (c), the material stock data include current stock data of a material and a substituent material that is replaceably used in place of the former material.

1           10. The method of claim 1, wherein in the step (d), each of the material inventory  
2           report is generated corresponding to a material code.

1           11. The method of claim 7, wherein in the step (d), each of the material inventory  
2           report is generated corresponding to a material code.

1           12. The method of claim 7, wherein in the step (e), the web browser is Microsoft  
2           Internet Explorer.

1           13. The method of claim 7, wherein in the step (e), the web browser is Netscape  
2           Navigator.

1           14. A system for material inventory control, allowing a manufacturer to maintain safe  
2           and efficient material stock; the system comprising:

3           a production management database for storing customer's order data received by a  
4           sales department of the manufacture, estimated order data projected by the sales department,  
5           and material stock data provided by an inventory management department of the  
6           manufacturer;

7           a processing module for retrieving data stored in the production management  
8           database and manipulating the retrieved data in a manner that, usage quantities of materials  
9           in the customer's order data and the estimated order data are calculated according to material  
10          codes and a production schedule, with each of the materials being designated by a unique

11 material code for identification purpose; the calculated usage quantities are deducted from  
12 stock amounts in the material stock data of the corresponding materials according to the  
13 material codes and the production schedule; and the deducted results are used to generate  
14 material inventory reports;

15 an inventory database for storing the material inventory reports generated by the  
16 processing module; and

17 a web-site server module connected to a network system, allowing the manufacturer  
18 to input an inquire material code by using a web browser through the network system, and  
19 browse a material inventory report stored in the inventory database corresponding to the  
20 inputted material code.

15. The system of claim 14, wherein the network system is internet or intranet.

16. The system of claim 14, wherein the web-site server module is a web site server.

17. The system of claim 14, wherein the web browser is Microsoft Internet Explorer.

18. The system of claim 14, wherein the web browser is Netscape Navigator.